

FIG.1

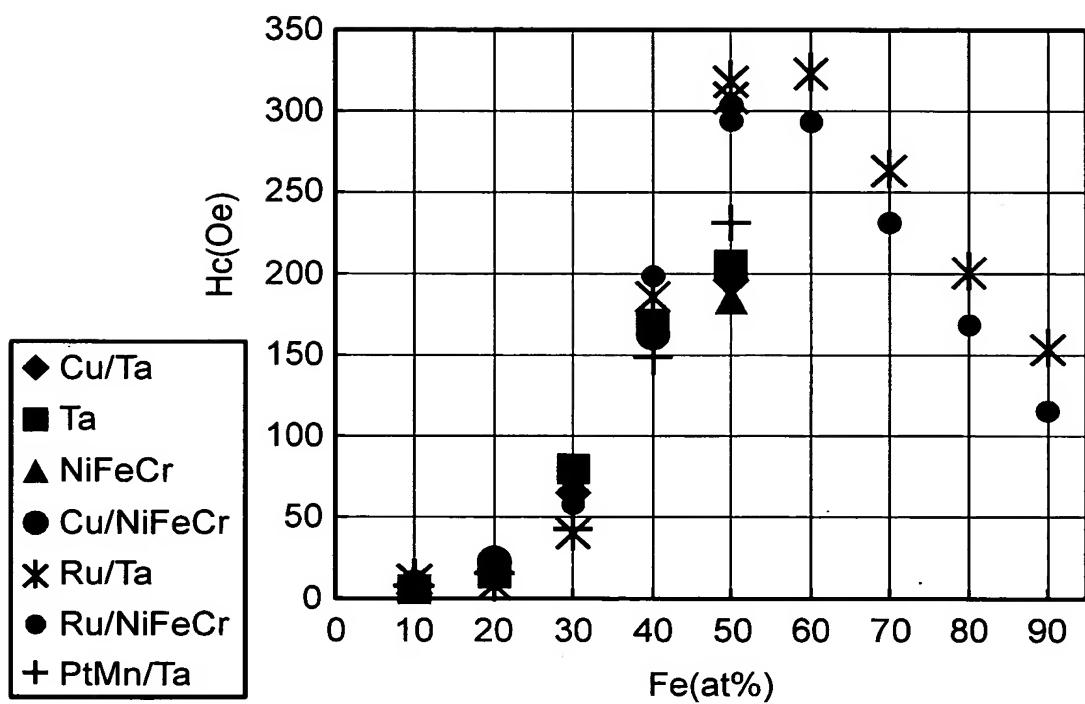


FIG.2(a)

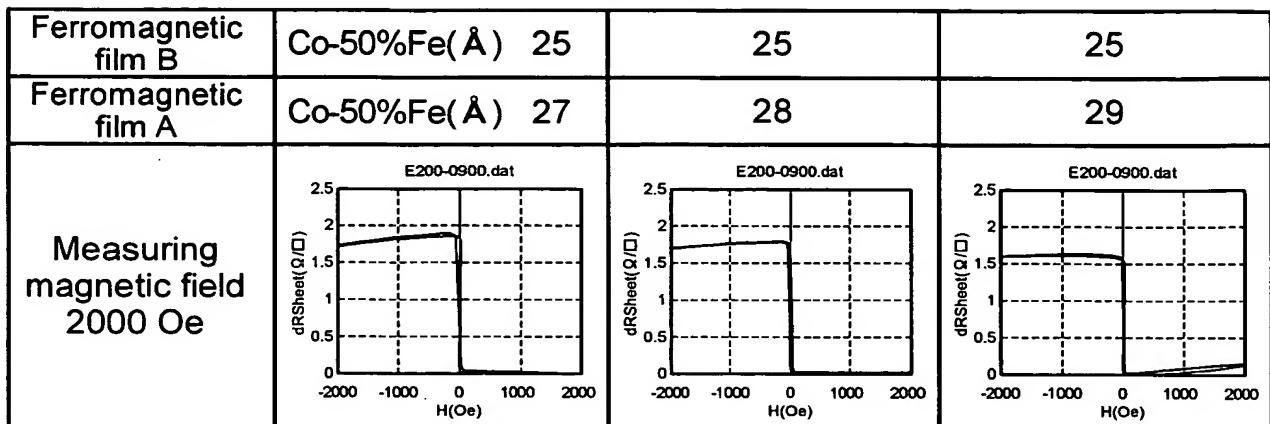


FIG.2(b)

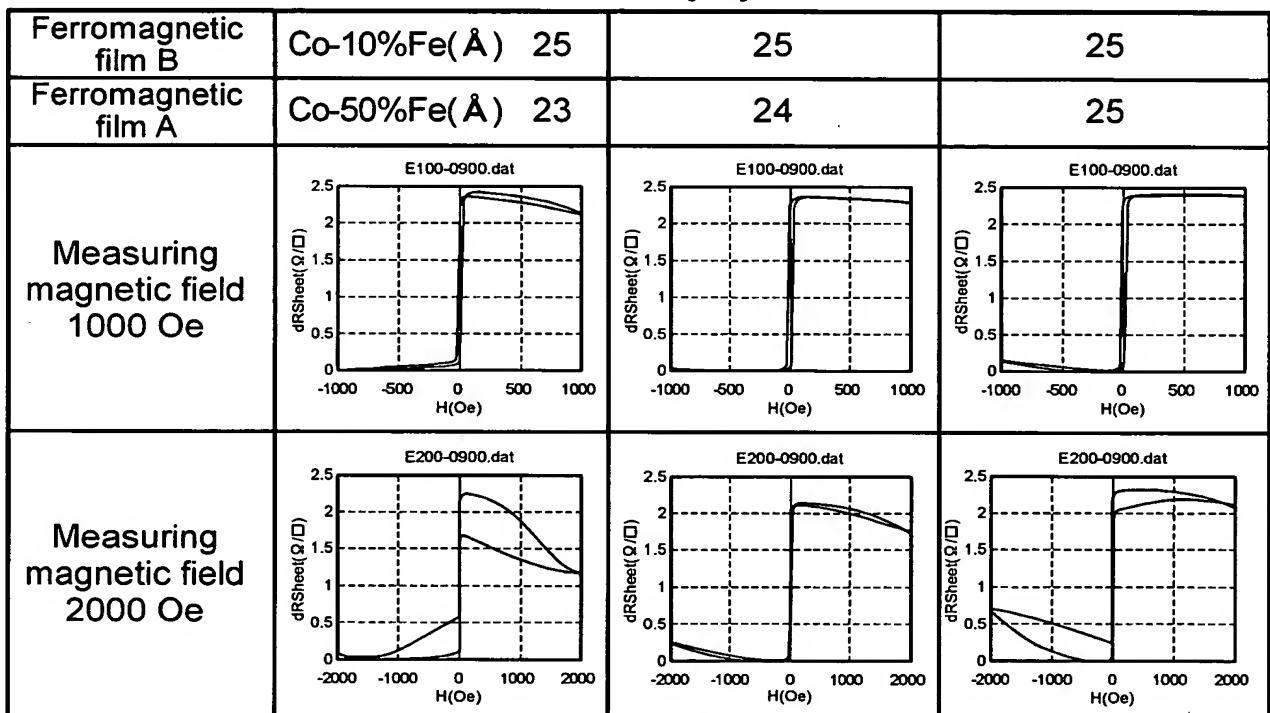


FIG.2(c)

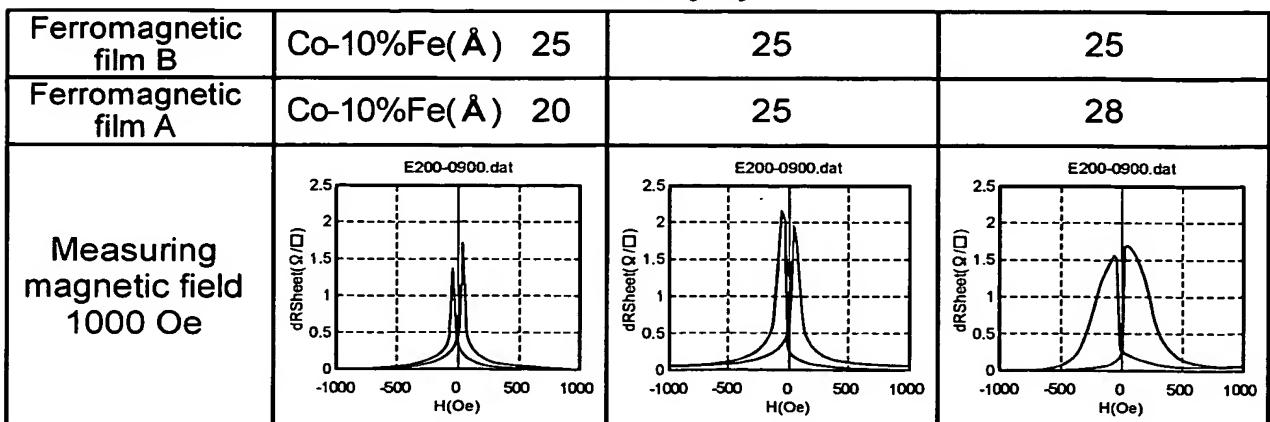


FIG.3(a)

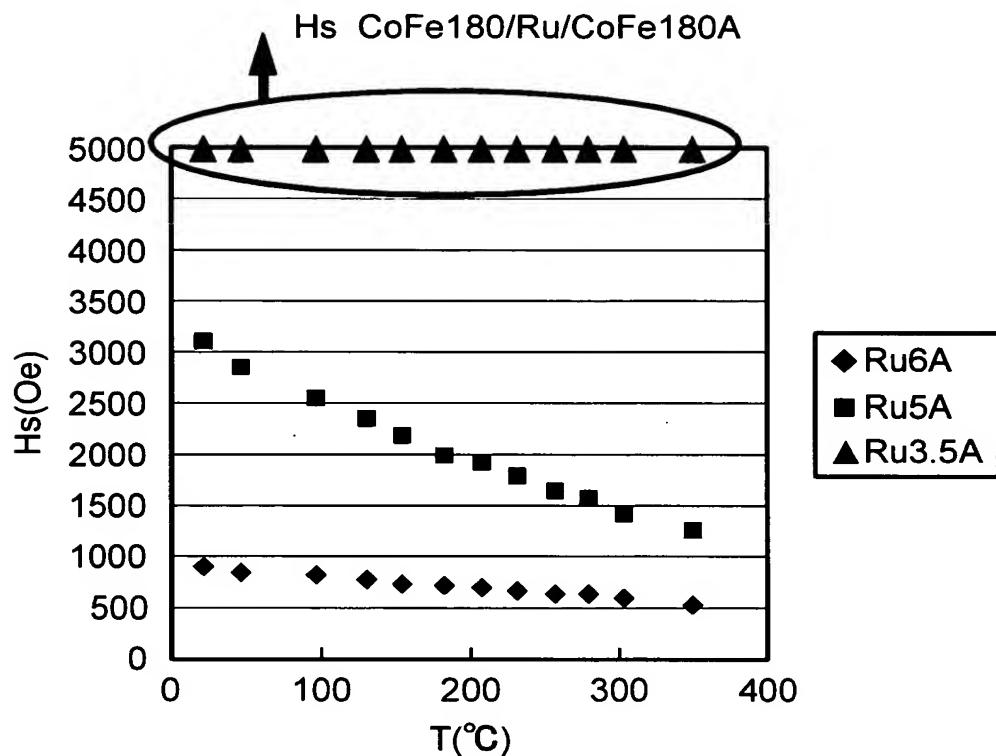


FIG.3(b)

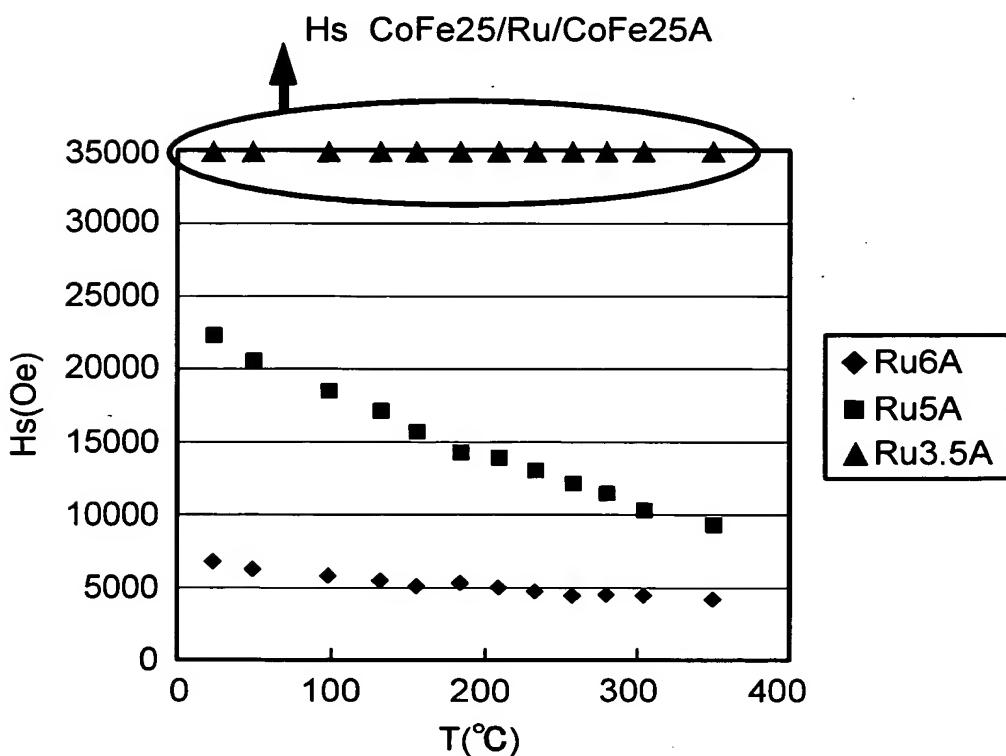


FIG.4

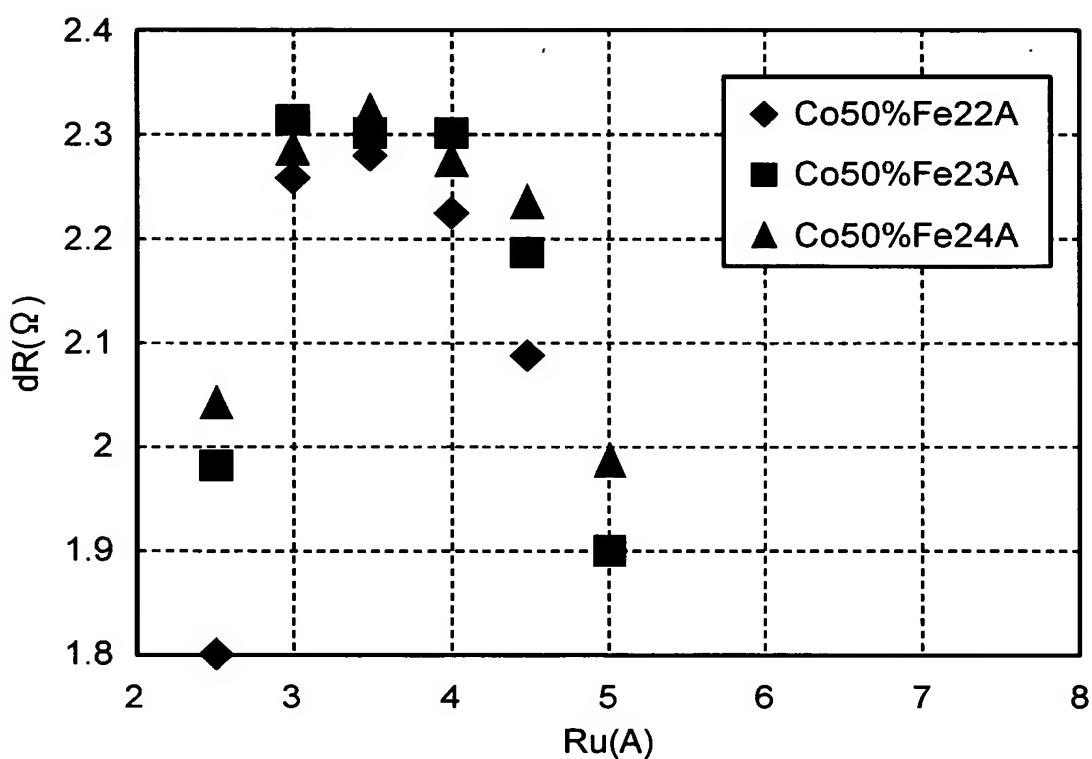
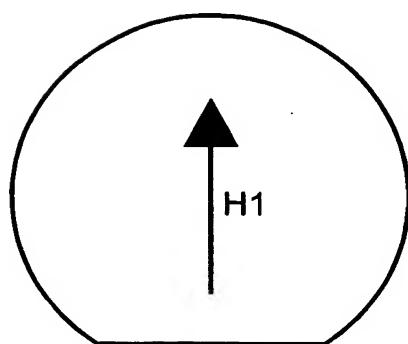
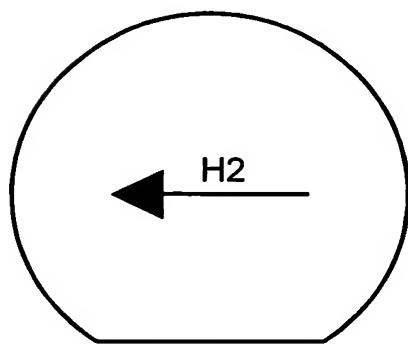


FIG.5



First step



Second step

FIG.6(a)

Ru (A)	Ferromagnetic film A (A)	22.0	22.5	23.0	23.5	24.0	24.5	25.0	25.5	26.0
3		×	×	×	×	×	○	○	×	×
3.5		×	×	×	×	×	○	○	×	×
3.8		×	×	×	×	○	○	○	×	×
4		×	×	○	○	○	○	○	×	×
4.2		×	×	○	○	○	×	×	×	×
4.5		×	×	○	○	×	×	×	×	×

high ← Stability → low

↑
 Stability
 ↓
 low

FIG.6(b)

Ru (A)	Ferromagnetic film A (A)	22.0	22.5	23.0	23.5	24.0	24.5	25.0	25.5	26.0
3		×	○	○	○	○	○	○	×	×
3.5		×	○	○	○	○	○	○	×	×
3.8		×	○	○	○	○	○	○	×	×
4		×	○	○	○	○	○	○	×	×
4.2		×	○	○	○	○	×	×	×	×
4.5		×	○	○	○	×	×	×	×	×

high ← Stability → low

↑
 Stability
 ↓
 low

FIG.7

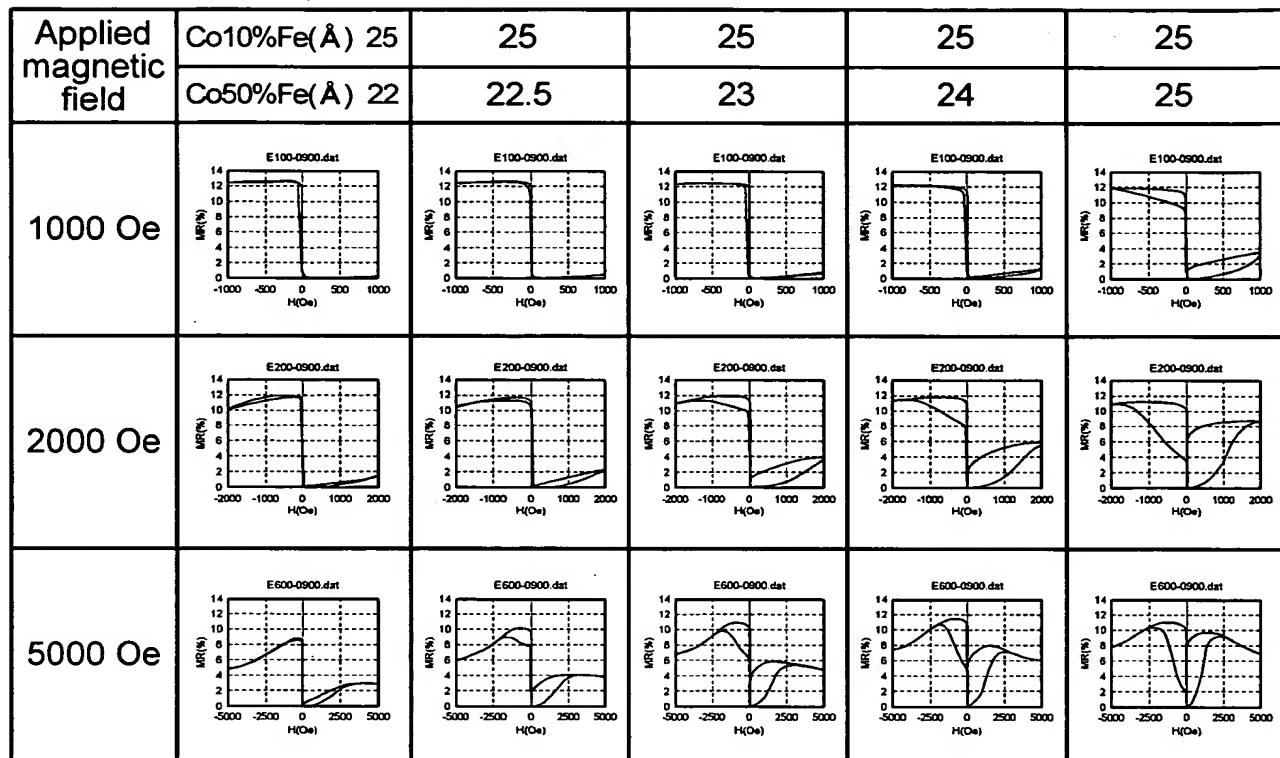


FIG.8

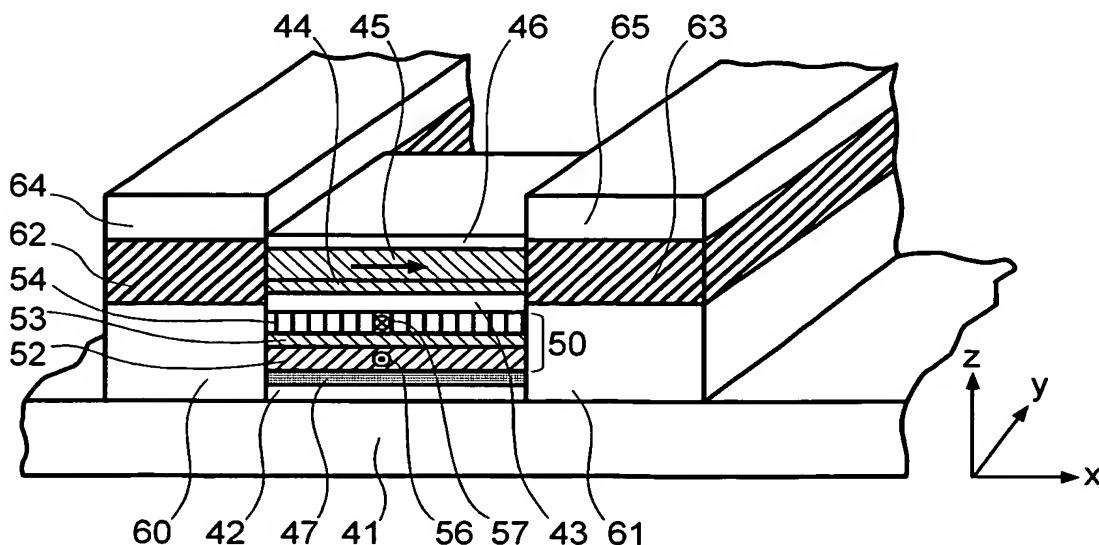


FIG.9

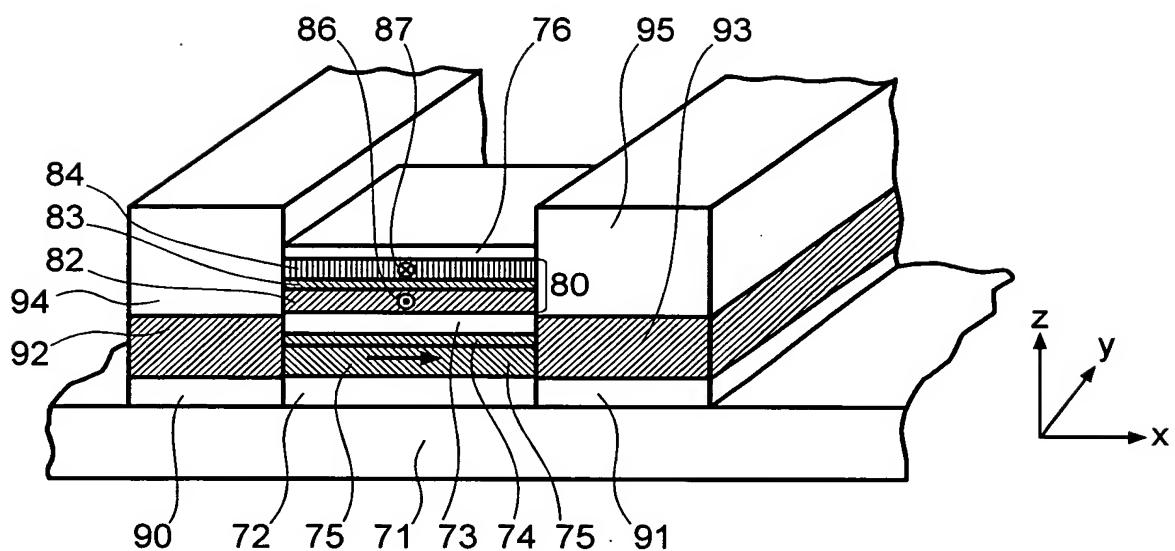


FIG.10

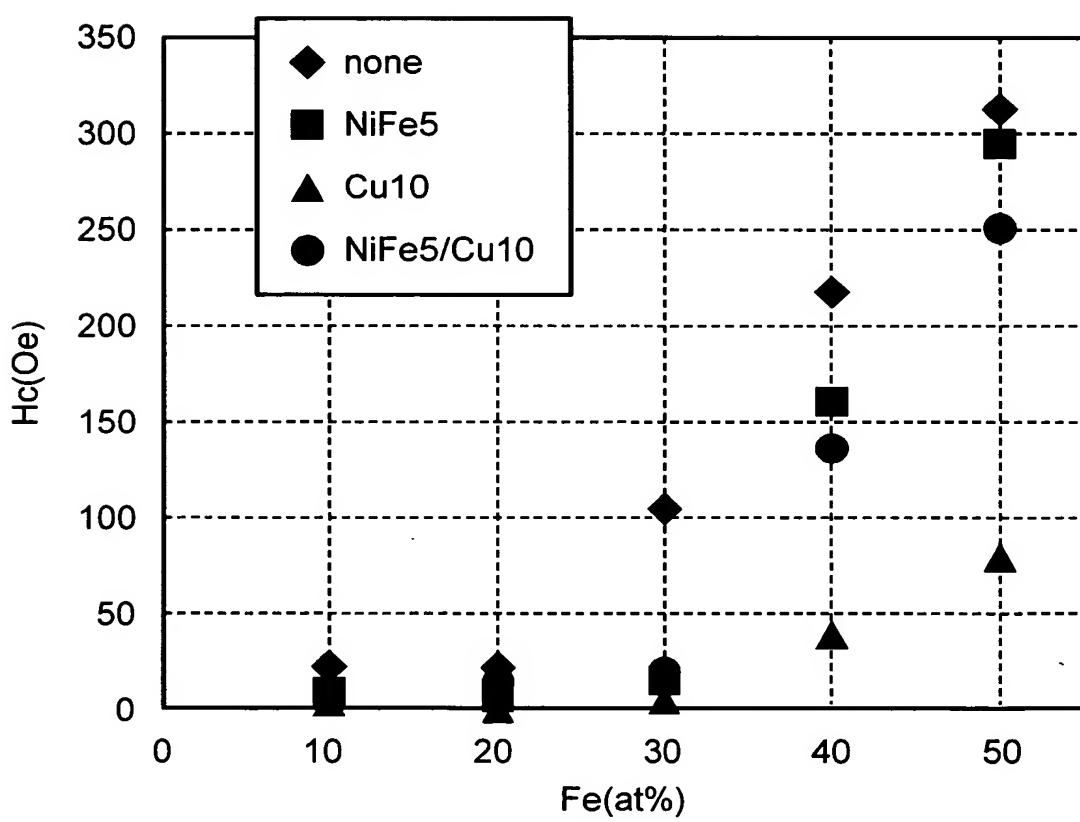


FIG.11

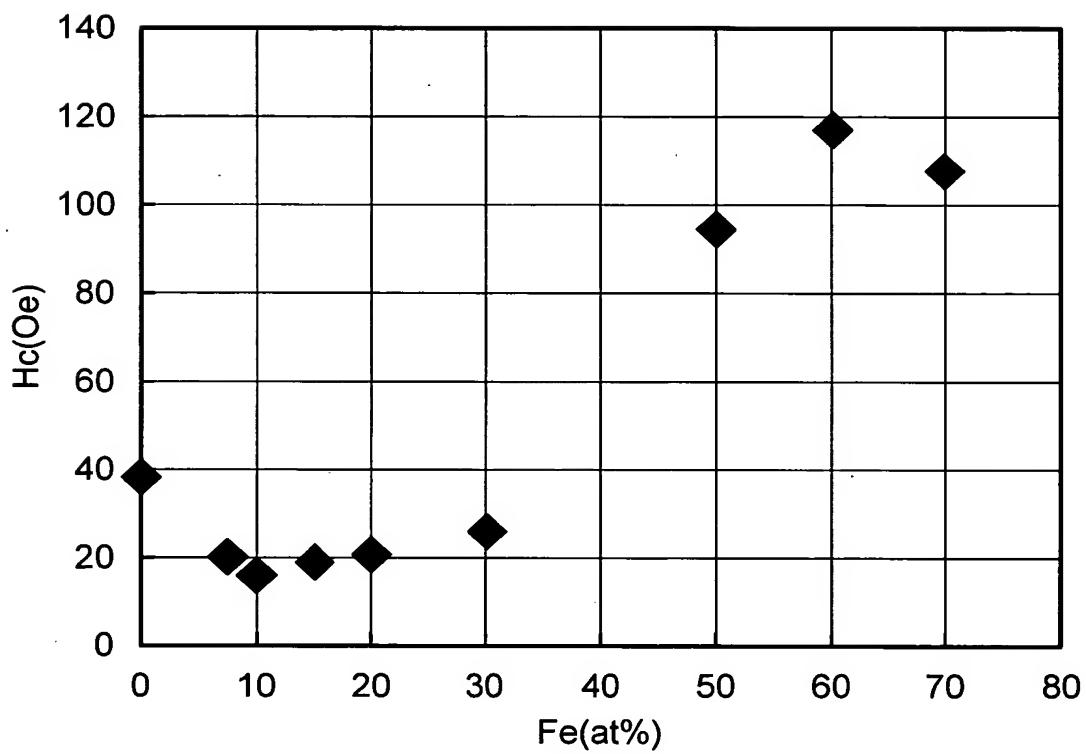


FIG.12

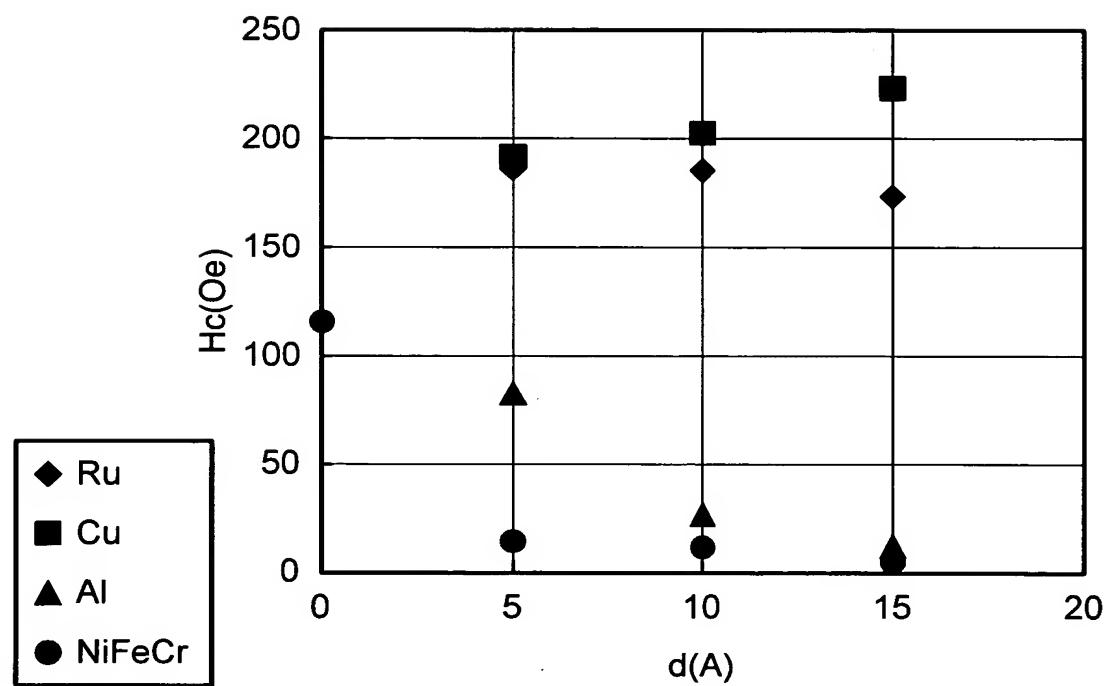


FIG.13

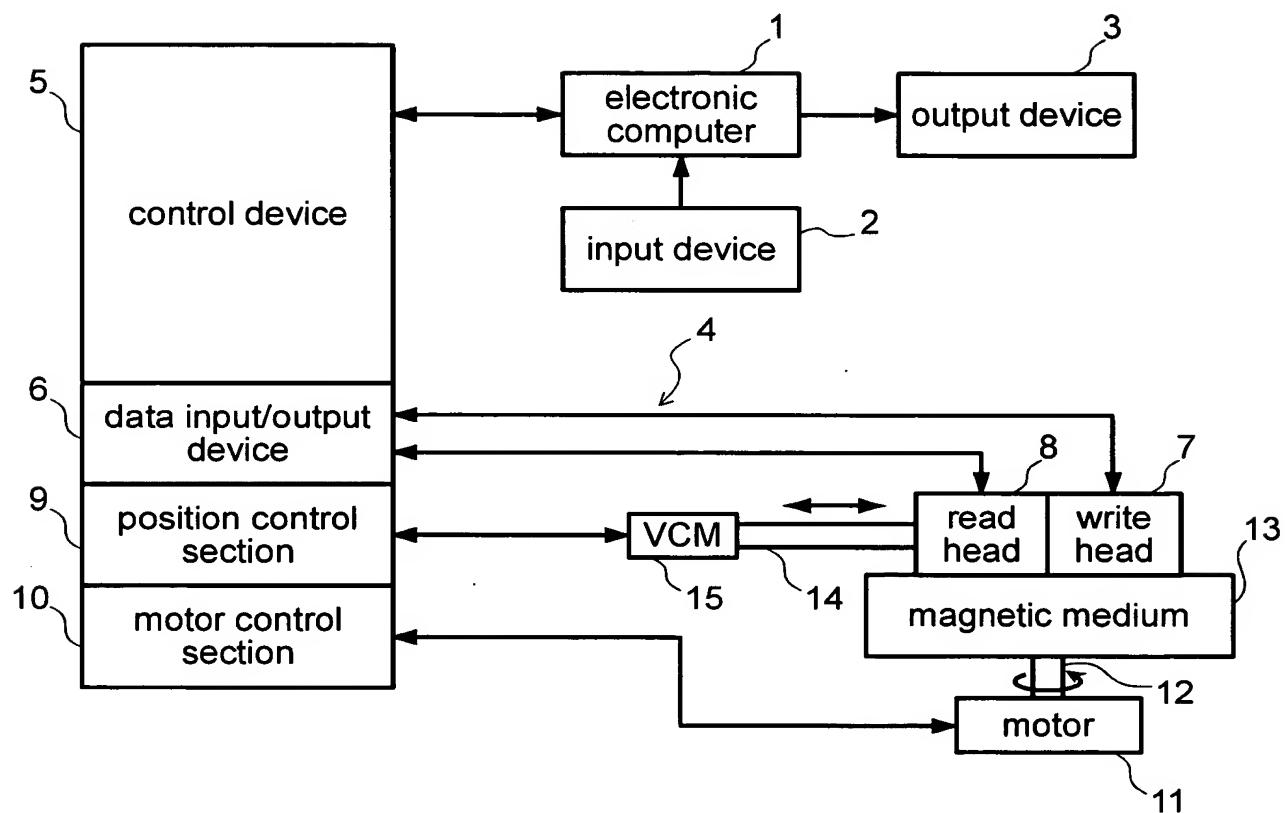


FIG.14

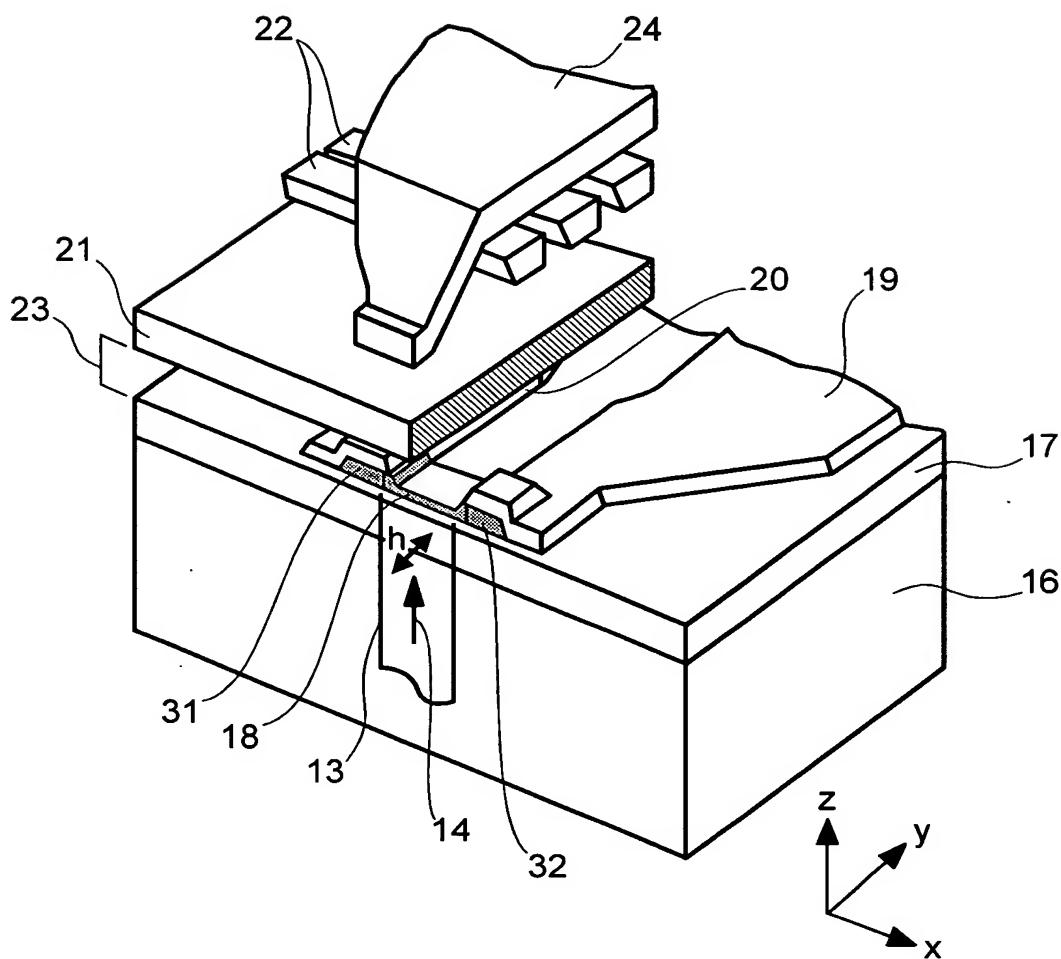
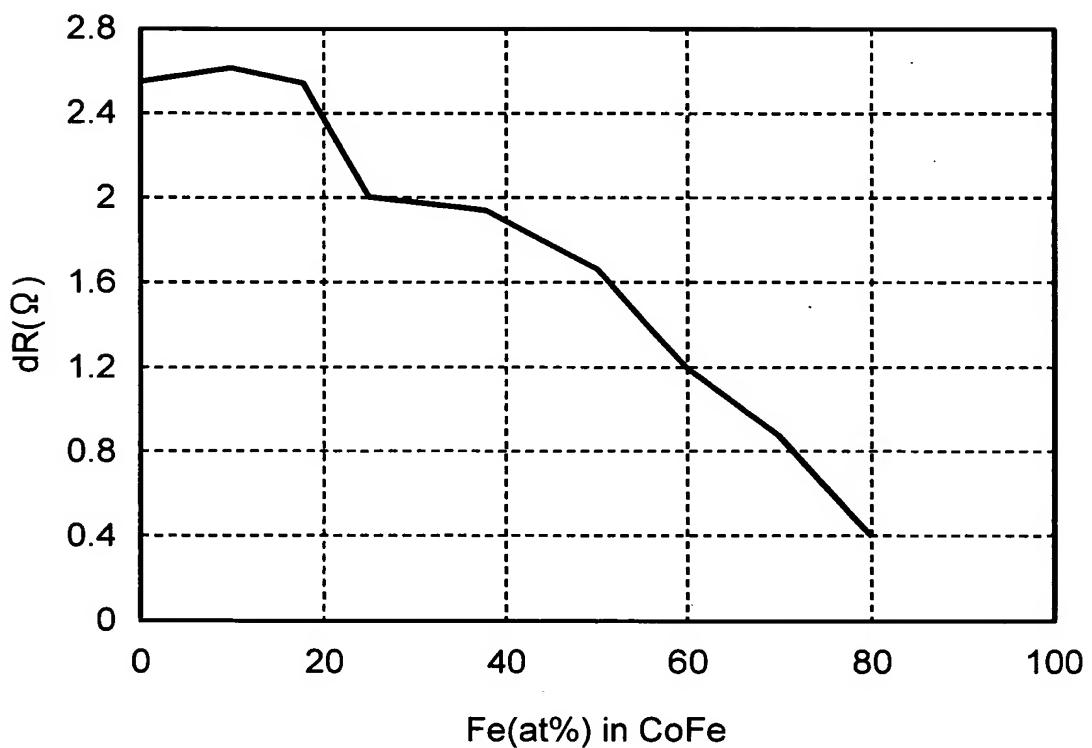


FIG.15



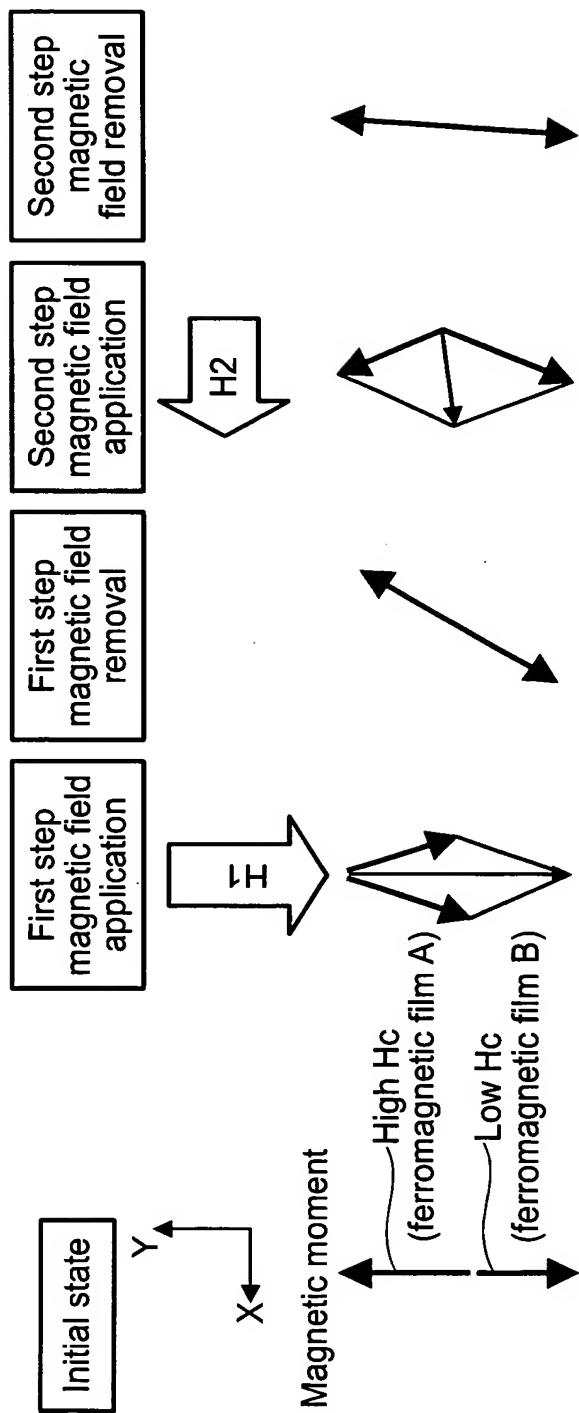


FIG. 16

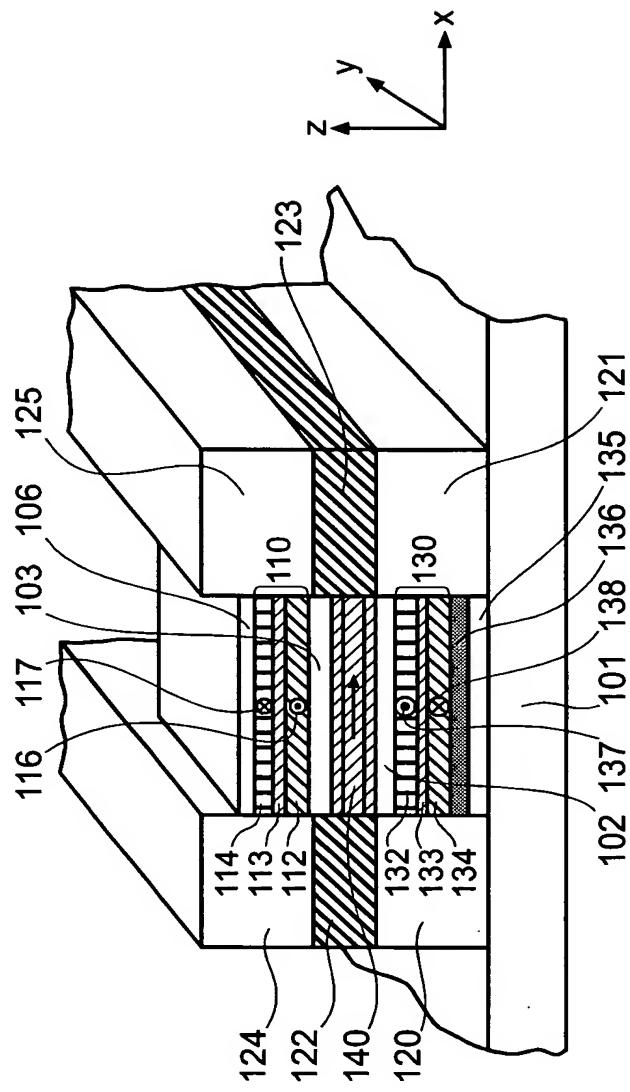


FIG. 17

FIG.18

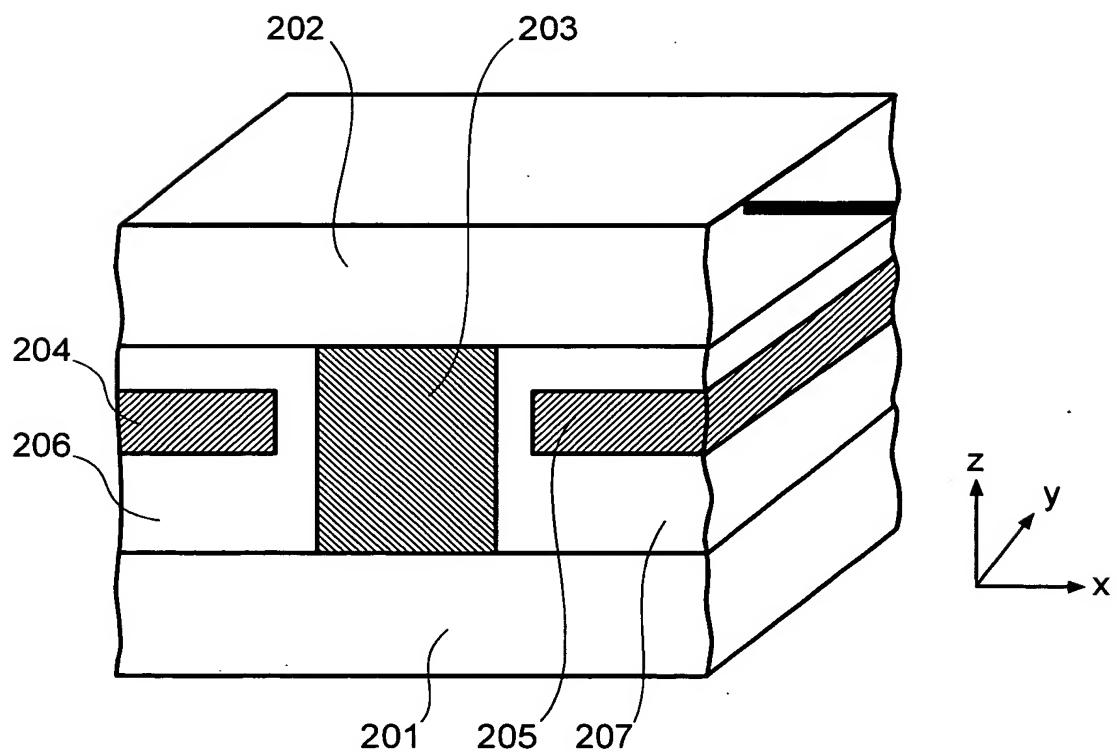


FIG.19

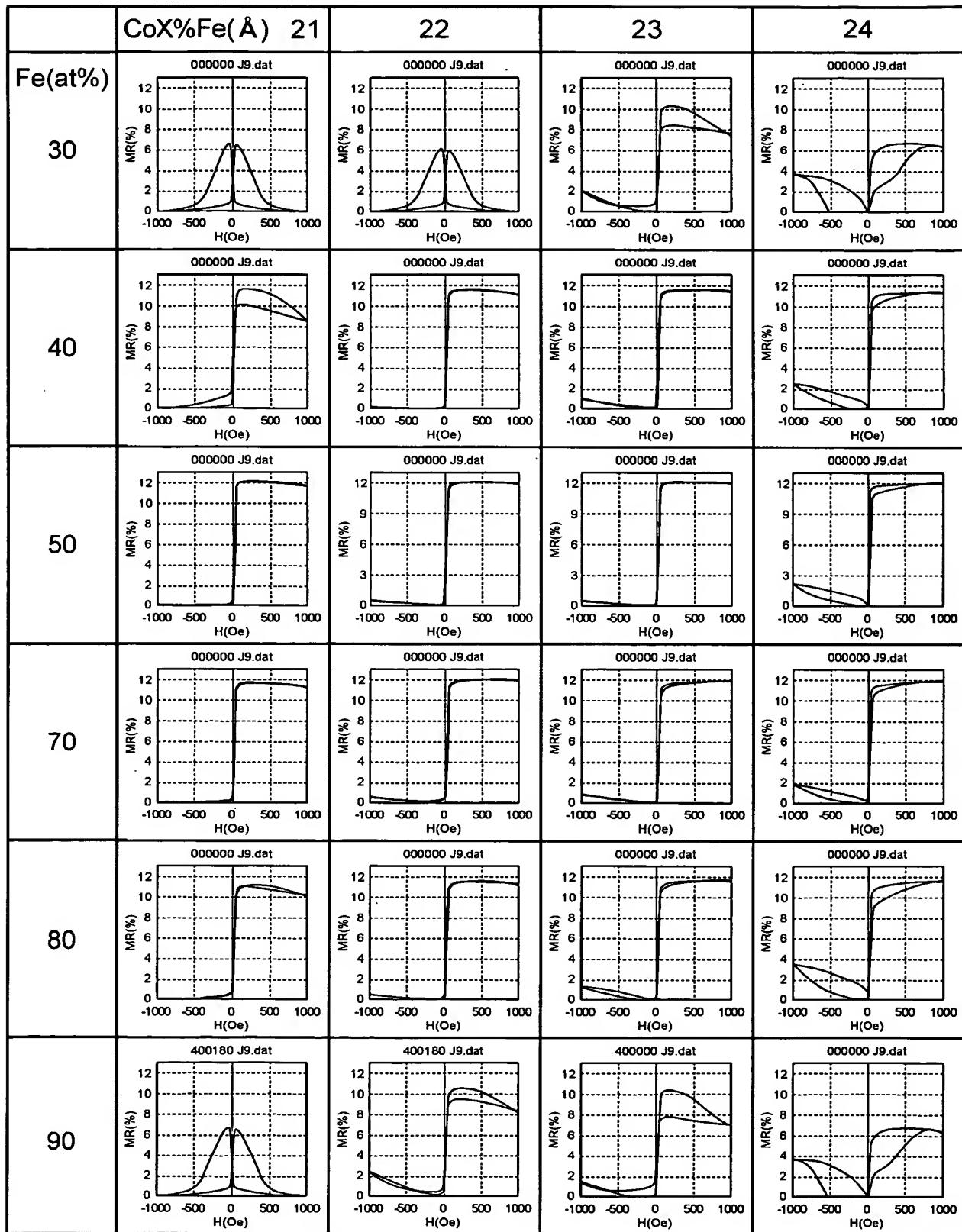


FIG.20

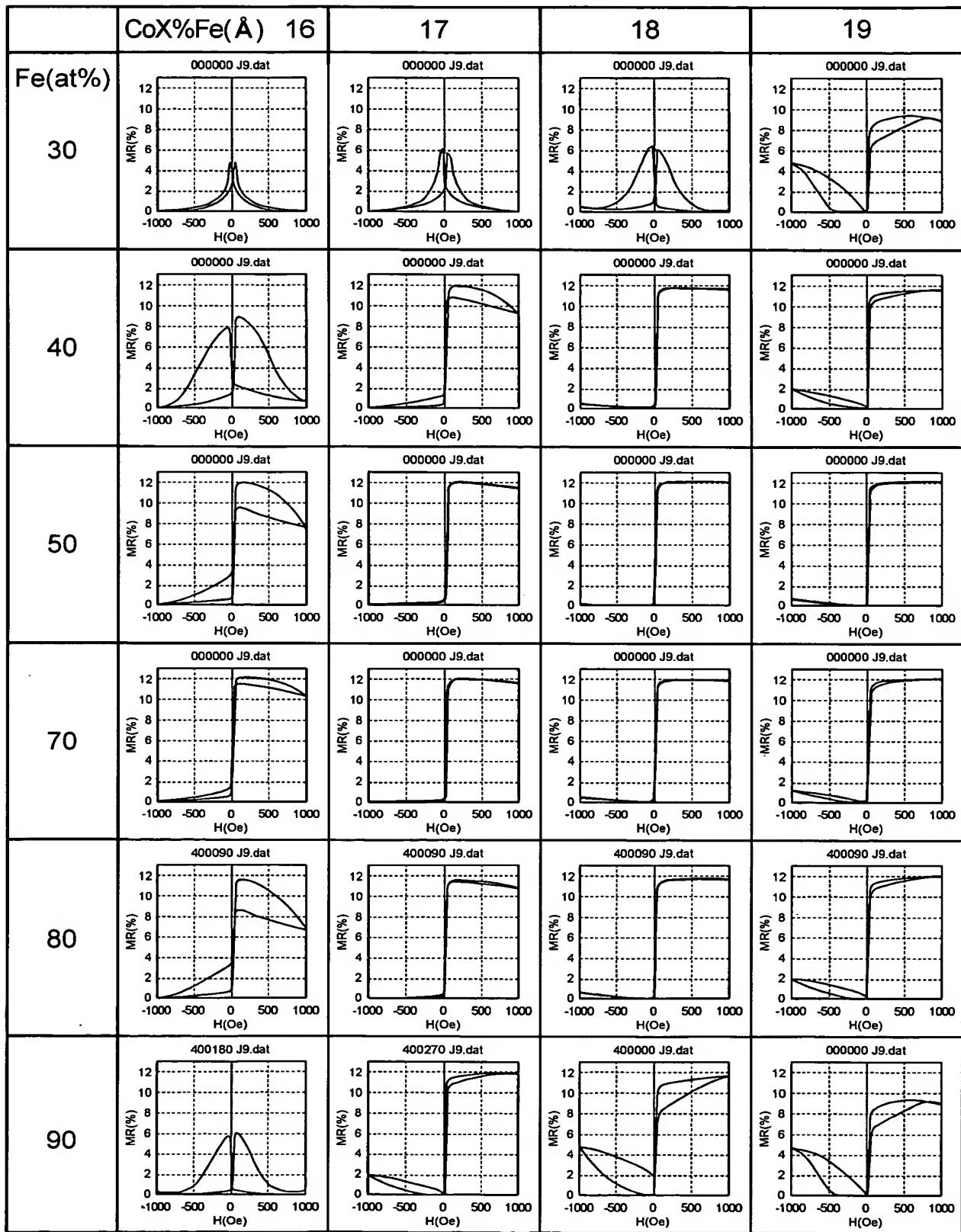


FIG.21

